

SEQUENCE LISTING

DNASIS- DNA Translation [T-INS]
 File Name : T-INS
 Range : 2 - 7286 Mode : Normal
 Codon Table : Universal

5' *Start of SEQ 3 + 4*

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| GAG | CTG | AGC | TGA | ACT | GGC | CCT | CCT | GGG | GAC | TCA | GCA | AGC | TCT | CTA | GAG | CCC | CCC |
| E | L | S | * | T | G | P | P | G | D | S | A | S | S | L | E | P | P |
| ACA | TGC | TCC | CCC | ACC | GGG | GTC | CCC | CGG | TTG | CGT | GAG | GAC | ACC | TCC | TCT | GAG | GGG |
| T | C | S | P | T | G | V | P | R | L | R | E | D | T | S | S | E | G |
| CTC | CGC | TCG | CCC | CTC | TTC | GGA | CCC | CGG | GGG | GCC | CCG | GCT | GCC | CAG | AGG | ATG | GAC |
| L | R | S | P | L | F | G | P | P | G | A | P | A | G | Q | R | M | D |
| GAG | GAG | GAG | GAT | GGA | GCG | GGC | GCC | GAG | GAG | TCG | GGA | CAG | CCC | CGT | AGC | TTC | ACG |
| E | E | E | D | G | A | G | A | E | E | S | G | Q | P | R | S | F | T |
| CAG | CTC | AAC | GAC | CTG | TCC | GGG | GCC | GGG | GGC | CGG | CAG | GGG | CCG | GGG | TCG | ACG | GAA |
| Q | L | N | D | L | S | G | A | G | G | R | Q | G | P | G | S | T | E |
| AAG | GAC | CCG | GGC | AGC | GCG | GAC | TCC | GAG | GCG | GAG | GGG | CTG | CCG | TAC | CCG | GCG | CTA |
| K | D | P | G | S | A | D | S | E | A | E | G | L | P | Y | P | A | L |
| GCC | CCG | GTG | GTT | TTC | TTC | TAC | TTG | AGC | CAG | GAC | AGC | CGC | CCG | CGG | AGC | TGG | TGT |
| A | P | V | V | F | F | Y | L | S | Q | D | S | R | P | R | S | W | C |
| CTC | CGC | ACG | GTC | TGT | AAC | CCG | TGG | TTC | GAG | CGA | GTC | AGT | ATG | CTG | GTC | ATT | CTT |
| L | R | T | V | C | N | P | W | F | E | R | V | S | M | L | V | I | L |
| CTC | AAC | TGT | GTG | ACT | CTG | GGT | ATG | TTC | AGG | CCG | TGT | GAG | GAC | ATT | GCC | TGT | GAC |
| L | N | C | V | T | L | G | M | F | R | P | C | E | D | I | A | C | D |
| TCC | CAG | CGC | TGC | CGG | ATC | CTG | CAG | GCC | TTC | GAT | GAC | TTC | ATC | TTT | GCC | TTC | TTT |
| S | Q | R | C | R | I | L | Q | A | F | D | D | F | I | F | A | F | F |
| GCT | GTG | GAA | ATG | GTG | GTG | AAG | ATG | GTG | GCC | TTG | GGC | ATC | TTT | GGG | AAG | AAA | TGT |
| A | V | E | M | V | V | K | M | V | A | L | G | I | F | G | K | K | C |
| TAC | CTG | GGA | GAC | ACT | TGG | AAC | CGG | CTT | GAC | TTT | TTC | ATT | GTC | ATT | GCA | GGG | ATG |
| Y | L | G | D | T | W | N | R | L | D | F | F | I | V | I | A | G | M |

Start of SEQ ID No: 1 + SEQ ID No: 2 (coding regions)

DNASIS DNA Translation [T-INS]

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CTG | GAG | TAT | TCG | CTG | GAC | CTG | CAG | AAC | GTC | AGC | TTC | TCC | GCA | GTC | AGG | ACA | GTC |
| L | E | Y | S | L | D | L | Q | N | V | S | F | S | A | V | R | T | V |
| CGT | GTG | CTG | CGA | CCG | CTC | AGG | GCC | ATT | AAC | CGG | GTG | CCC | AGC | ATG | CGC | ATT | CTC |
| R | V | L | R | P | L | R | A | I | N | R | V | P | S | M | R | I | L |
| GTC | ACA | TTA | CTG | CTG | GAC | ACC | TTG | CCT | ATG | CTG | GGC | AAC | GTC | CTG | CTG | CTC | TGT |
| V | T | L | L | L | D | T | L | P | M | L | G | N | V | L | L | L | C |
| TTC | TTC | GTC | TTT | TTC | ATC | TTT | GGC | ATC | GTG | GGC | GTC | CAG | CTG | TGG | GCA | GGA | CTG |
| F | F | V | F | F | I | F | G | I | V | G | V | Q | L | W | A | G | L |
| CTT | CGC | AAC | CGA | TGC | TTC | CTC | CCC | GAG | AAC | TTC | AGC | CTC | CCC | CTG | AGC | GTG | GAC |
| L | R | N | R | C | F | L | P | E | N | F | S | L | P | L | S | V | D |
| CTG | GAG | CCT | TAT | TAC | CAG | ACA | GAG | AAT | GAG | GAC | GAG | AGC | CCC | TTC | ATC | TGC | TCT |
| L | E | P | Y | Y | Q | T | E | N | E | D | E | S | P | F | I | C | S |
| CAG | CCT | CGG | GAG | AAT | GGC | ATG | AGA | TCC | TGC | AGG | AGT | GTG | CCC | ACA | CTG | CGT | GGG |
| Q | P | R | E | N | G | M | R | S | C | R | S | V | P | T | L | R | G |
| GAA | GGC | GGT | GGT | GGC | CCA | CCC | TGC | AGT | CTG | GAC | TAT | GAG | ACC | TAT | AAC | AGT | TCC |
| E | G | G | G | G | P | P | C | S | L | D | Y | E | T | Y | N | S | S |
| AGC | AAC | ACC | ACC | TGT | GTC | AAC | TGG | AAC | CAG | TAC | TAT | ACC | AAC | TGC | TCT | GCG | GGC |
| S | N | T | T | C | V | N | W | N | Q | Y | Y | T | N | C | S | A | G |
| GAG | CAC | AAC | CCC | TTC | AAA | GGC | GCC | ATC | AAC | TTT | GAC | AAC | ATT | GGC | TAT | GCC | TGG |
| E | H | N | P | F | K | G | A | I | N | F | D | N | I | G | Y | A | W |
| ATC | GCC | ATC | TTC | CAG | GTC | ATC | ACA | CTG | GAG | GGC | TGG | GTC | GAC | ATC | ATG | TAC | TTC |
| I | A | I | F | Q | V | I | T | L | E | G | W | V | D | I | M | Y | F |
| GTA | ATG | GAC | GCT | CAC | TCC | TTC | TAC | AAC | TTC | ATC | TAC | TTC | ATT | CTT | CTC | ATC | ATC |
| V | M | D | A | H | S | F | Y | N | F | I | Y | F | I | L | L | I | I |
| GTG | GGC | TCC | TTC | TTC | ATG | ATC | AAC | CTG | TGC | CTG | GTG | GTG | ATT | GCC | ACG | CAG | TTC |
| V | G | S | F | F | M | I | N | L | C | L | V | V | I | A | T | Q | F |

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|---|------|------|------|------|------|
| 1360 | 1369 | 1378 | 1387 | 1396 | 1405 |
| TCC GAG ACC AAA CAG CGG GAG AGT CAG CTG ATG CGG GAG CAG CGT GTA CGA TTC | | | | | |
| S E T K Q R E S Q L M R E Q R V R F | | | | | |
| 1414 | 1423 | 1432 | 1441 | 1450 | 1459 |
| CTG TCC AAT GCT AGC ACC CTG GCA AGC TTC TCT GAG CCA GGC AGC TGC TAT GAG | | | | | |
| L S N A S T L A S F S E P G S C Y E | | | | | |
| 1468 | 1477 | 1486 | 1495 | 1504 | 1513 |
| GAG CTA CTC AAG TAC CTG GTG TAC ATC CTC CGA AAA GCA GCC CGA AGG CTG GCC | | | | | |
| E L L K Y L V Y I L R K A A R R L A | | | | | |
| 1522 | 1531 | 1540 | 1549 | 1558 | 1567 |
| CAG GTC TCT AGG GCT ATA GGC GTG CGG GCT GGG CTG CTC AGC AGC CCA GTG GCC | | | | | |
| Q V S R A I G V R A G L L S S P V A | | | | | |
| 1576 | 1585 | 1594 | 1603 | 1612 | 1621 |
| CGT AGT GGG CAG GAG CCC CAG CCC AGT GGC AGC TGC ACT CGC TCA CAC CGT CGT | | | | | |
| R S G Q E P Q P S G S C T R S H R R | | | | | |
| 1630 | 1639 | 1648 | 1657 | 1666 | 1675 |
| CTG TCT GTC CAC CAC CTG GTC CAC CAC CAT CAC CAC CAC CAT CAC CAC TAC CAC | | | | | |
| L S V H H L V H H H H H H H H Y H | | | | | |
| 1684 | 1693 | 1702 | 1711 | 1720 | 1729 |
| CTG GGT AAT GGG ACG CTC AGA GTT CCC CGG GCC AGC CCA GAG ATC CAG GAC AGG | | | | | |
| L G N G T L R V P R A S P E I Q D R | | | | | |
| 1738 | 1747 | 1756 | 1765 | 1774 | 1783 |
| GAT GCC AAT GGG TCT CGC CGG CTC ATG CTA CCA CCA CCC TCT ACA CCC ACT CCC | | | | | |
| D A N G S R R L M L P P P S T P T P | | | | | |
| 1792 | 1801 | 1810 | 1819 | 1828 | 1837 |
| TCT GGG GGC CCT CCG AGG GGT GCG GAG TCT GTA CAC AGC TTC TAC CAT GCT GAC | | | | | |
| S G G P P R G A E S V H S F Y H A D | | | | | |
| 1846 | 1855 | 1864 | 1873 | 1882 | 1891 |
| TGC CAC TTG GAG CCA GTC CGT TGC CAG GCA CCC CCT CCC AGA TGC CCA TCG GAG | | | | | |
| C H L E P V R C Q A P P P R C P S E | | | | | |
| 1900 | 1909 | 1918 | 1927 | 1936 | 1945 |
| GCA TCT GGT AGG ACT GTG GGT AGT GGG AAG GTG TAC CCC ACT GTG CAT ACC AGC | | | | | |
| A S G R T V G S G K V Y P T V H T S | | | | | |
| 1954 | 1963 | 1972 | 1981 | 1990 | 1999 |
| CCT CCA CCA GAG ATA CTG AAG GAT AAA GCA CTA GTG GAG GTG GCC CCC AGC CCT | | | | | |
| P P P E I L K D K A L V E V A P S P | | | | | |
| 2008 | 2017 | 2026 | 2035 | 2044 | 2053 |
| GGG CCC CCC ACC CTC ACC AGC TTC AAC ATC CCA CCT GGG CCC TTC AGC TCC ATG | | | | | |
| G P P T L T S F N I P P G P S S M | | | | | |

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|---|------|------|------|------|------|
| 2062 | 2071 | 2080 | 2089 | 2098 | 2107 |
| CAC AAG CTC CTG GAG ACA CAG AGT ACG GGA GCC TGC CAT AGC TCC TGC AAA ATC | | | | | |
| H K L L E T Q S T G A C H S S C K I | | | | | |
| 2116 | 2125 | 2134 | 2143 | 2152 | 2161 |
| TCC AGC CCT TGC TCC AAG GCA GAC AGT GGA GCC TGC GGG CCG GAC AGT TGT CCC | | | | | |
| S S P C S K A D S G A C G P D S C P | | | | | |
| 2170 | 2179 | 2188 | 2197 | 2206 | 2215 |
| TAC TGT GCC CGG ACA GGA GCA GGA GAG CCA GAG TCC GCT GAC CAT GTC ATG CCT | | | | | |
| Y C A R T G A G E P E S A D H V M P | | | | | |
| 2224 | 2233 | 2242 | 2251 | 2260 | 2269 |
| GAC TCA GAC AGC GAG GCT GTG TAT GAG TTC ACA CAG GAC GCT CAG CAC AGT GAC | | | | | |
| D S D S E A V Y E F T Q D A Q H S D | | | | | |
| 2278 | 2287 | 2296 | 2305 | 2314 | 2323 |
| CTC CGG GAT CCC CAC AGC CGG CGG CGA CAG CGG AGC CTG GGC CCA GAT GCA GAG | | | | | |
| L R D P H S R R R Q R S L G P D A E | | | | | |
| 2332 | 2341 | 2350 | 2359 | 2368 | 2377 |
| CCT AGT TCT GTG CTG GCT TTC TGG ACG CTG ATC TGT GAC ACA TTC CGG AAG ATC | | | | | |
| P S S V L A F W R L I C D T F R K I | | | | | |
| 2386 | 2395 | 2404 | 2413 | 2422 | 2431 |
| GTA GAT AGC AAA TAC TTT GGC CGG GGA ATC ATG ATC GCC ATC CTG GTC AAT ACA | | | | | |
| V D S K Y F G R G I M I A I L V N T | | | | | |
| 2440 | 2449 | 2458 | 2467 | 2476 | 2485 |
| CTC AGC ATG GGC ATC GAG TAC CAC GAG CAG CCC GAG GAG CTC ACC AAC GCC CTG | | | | | |
| L S M G I E Y H E Q P E E L T N A L | | | | | |
| 2494 | 2503 | 2512 | 2521 | 2530 | 2539 |
| GAA ATC AGC AAC ATC GTC TTC ACC AGC CTC TTC GCC TTG GAG ATG CTG CTG AAA | | | | | |
| E I S N I V F T S L F A L E M L L K | | | | | |
| 2548 | 2557 | 2566 | 2575 | 2584 | 2593 |
| CTG CTT GTC TAC GGT CCC TTT GGC TAC ATT AAG AAT CCC TAC AAC ATC TTT GAT | | | | | |
| L L V Y G P F G Y I K N E Y N I F D | | | | | |
| 2602 | 2611 | 2620 | 2629 | 2638 | 2647 |
| GGT GTC ATT GTG GTC ATC AGT GTG TGG GAG ATT GTG GGC CAG CAG GGA GGT GGC | | | | | |
| G V I V V I S V W E I V G Q Q G G G | | | | | |
| 2656 | 2665 | 2674 | 2683 | 2692 | 2701 |
| CTG TCG GTG CTG CGG ACC TTC CGC CTG ATG CGG GTG CTG AAG CTG GTG CGC TTC | | | | | |
| L S V L R T F R L M R V L K L V R F | | | | | |
| 2710 | 2719 | 2728 | 2737 | 2746 | 2755 |
| CTG CCG GCC CTG CAG CGC CAG CTC GTG GTG CTC ATG AAG ACC ATG GAC AAC GTG | | | | | |
| L P A L Q R Q L V V L M K T M D N V | | | | | |

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|---|------|------|------|------|------|
| 2764 | 2773 | 2782 | 2791 | 2800 | 2809 |
| GCC ACC TTC TGC ATG CTC CTC ATG CTG TTC ATC TTC ATC TTC AGC ATC CTG GGC | | | | | |
| A T F C M L L M L F I F I F S I L G | | | | | |
| 2818 | 2827 | 2836 | 2845 | 2854 | 2863 |
| ATG CAT CTC TTT GGT TGC AAG TTC GCA TCT GAA CGG GAT GGG GAC ACG TTG CCA | | | | | |
| M H L F G C K F A S E R D G D T L P | | | | | |
| 2872 | 2881 | 2890 | 2899 | 2908 | 2917 |
| GAC CGG AAG AAT TTC GAC TCC CTG CTC TGG GCC ATC GTC ACT GTC TTT CAG ATT | | | | | |
| D R K N F D S L L W A I V T V F Q I | | | | | |
| 2926 | 2935 | 2944 | 2953 | 2962 | 2971 |
| CTG ACT CAG GAA GAC TGG AAT AAA GTC CTC TAC AAC GGC ATG GCC TCC ACA TCG | | | | | |
| L T Q E D W N K V L Y N G M A S T S | | | | | |
| 2980 | 2989 | 2998 | 3007 | 3016 | 3025 |
| TCT TGG GCT GCT CTT TAC TTC ATC GCC CTC ATG ACT TTT GGC AAC TAT GTG CTC | | | | | |
| S W A A L Y F I A L M T F G N Y V L | | | | | |
| 3034 | 3043 | 3052 | 3061 | 3070 | 3079 |
| TTT AAC CTG CTG GTG GCC ATT CTT GTG GAA GGA TTC CAG GCA GAG GAA ATC GGC | | | | | |
| F N L L V A I L V E G F Q A E E I G | | | | | |
| 3088 | 3097 | 3106 | 3115 | 3124 | 3133 |
| AAA CGG GAA GAT GCG AGT GGA CAG TTA AGC TGT ATT CAG CTG CCT GTC AAC TCT | | | | | |
| K R E D A S G Q L S C I Q L P V N S | | | | | |
| 3142 | 3151 | 3160 | 3169 | 3178 | 3187 |
| CAG GGG GGA GAT GCC ACC AAG TCT GAG TCA GAG CCT GAT TTC TTT TCG CCC AGT | | | | | |
| Q G G D A T K S E S E P D F F S P S | | | | | |
| 3196 | 3205 | 3214 | 3223 | 3232 | 3241 |
| GTG GAT GGT GAT GGG GAC AGA AAG AAG CCG TTG GCC CTG GTG GCT TTG GGA GAA | | | | | |
| V D G D G D R K K R L A L V A L G E | | | | | |
| 3250 | 3259 | 3268 | 3277 | 3286 | 3295 |
| CAC GCG GAA CTA CGA AAG AGC CTT TTG CCA CCC CTC ATC ATC CAT ACG GCT GCG | | | | | |
| H A E L R K S L L P P L I I H T A A | | | | | |
| 3304 | 3313 | 3322 | 3331 | 3340 | 3349 |
| ACA CCA ATG TCA CTA CCC AAG AGC TCC AGC ACA GGT GTG GGG GAA GCA CTG GGC | | | | | |
| T P M S L P K S S S T G V G E A L G | | | | | |
| 3358 | 3367 | 3376 | 3385 | 3394 | 3403 |
| TCT GGC TCT CGA CGT ACC AGT AGC AGT GGG TCC GCT GAG CCT GGA GCT GCC CAC | | | | | |
| S G S R R T S S S G S A E P G A A H | | | | | |
| 3412 | 3421 | 3430 | 3439 | 3448 | 3457 |
| CAT GAG ATG AAA TCT CCG CCA AGT GCC CGC AGC TCC CCG CAC AGT CCC TGG AGT | | | | | |
| H E M K S P P S A R S S P H S P W S | | | | | |

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|---|------|------|------|------|------|
| 3466 | 3475 | 3484 | 3493 | 3502 | 3511 |
| CCG GCA AGC AGC TGG ACC AGC AGG CGC TCC AGC AGG AAC AGC CTG GGC CGG GCC | | | | | |
| A A S S W T S R R S S R N S L G R A | | | | | |
| 3520 | 3529 | 3538 | 3547 | 3556 | 3565 |
| CCC AGC CTA AAG CGG AGG AGC CCG AGC GGG GAG CGG AGG TCC CTG CTG TCT GGA | | | | | |
| P S L K R R S P S G E R R S L L S G | | | | | |
| 3574 | 3583 | 3592 | 3601 | 3610 | 3619 |
| GAG GGC CAG GAG AGT CAG GAT GAG GAG GAA AGT TCA GAA GAG GAC CGG GCC AGC | | | | | |
| E G Q E S Q D E E E S S E E D R A S | | | | | |
| 3628 | 3637 | 3646 | 3655 | 3664 | 3673 |
| CCA GCA GGC AGT GAC CAT CGC CAC AGG GGT TCC TTG GAA CGT GAG GCC AAG AGT | | | | | |
| P A G S D H R H R G S L E R E A K S | | | | | |
| 3682 | 3691 | 3700 | 3709 | 3718 | 3727 |
| TCC TTT GAC CTG CCT GAC ACT CTG CAG GTG CCG GGG CTG CAC CGC ACA GCC AGC | | | | | |
| S F D L P D T L Q V P G L H R T A S | | | | | |
| 3736 | 3745 | 3754 | 3763 | 3772 | 3781 |
| GGC CGG AGC TCT GCC TCT GAG CAC CAA GAC TGT AAT GGC AAG TCG GCT TCA GGG | | | | | |
| G R S S A S E H Q D C N G K S A S G | | | | | |
| 3790 | 3799 | 3808 | 3817 | 3826 | 3835 |
| CGT TTG GCC CGC ACC CTG AGG ACT GAT GAC CCC CAA CTG GAT GGG GAT GAT GAC | | | | | |
| R L A R T L R T D D P Q L D G D D D | | | | | |
| 3844 | 3853 | 3862 | 3871 | 3880 | 3889 |
| AAT GAT GAG GGA AAT CTG AGC AAA GGG GAA CGC ATA CAA GCC TGG GTC AGA TCC | | | | | |
| N D E G N L S K G E R I Q A W V R S | | | | | |
| 3898 | 3907 | 3916 | 3925 | 3934 | 3943 |
| CGG CTT CCT GCC TGT TGC CGA GAG CGA GAT TCC TGG TCG GCC TAT ATC TTT CCT | | | | | |
| R L P A C C R E R D S W S A Y I F P | | | | | |
| 3952 | 3961 | 3970 | 3979 | 3988 | 3997 |
| CCT CAG TCA AGG TTT CGT CTC CTG TGT CAC CGG ATC ATC ACC CAC AAG ATG TTT | | | | | |
| P Q S R F R L L C H R I I T H K M F | | | | | |
| 4006 | 4015 | 4024 | 4033 | 4042 | 4051 |
| GAC CAT GTG GTC CTC GTC ATC ATC TTC CTC AAC TGT ATC ACC ATC GCT ATG GAG | | | | | |
| D H V V L V I I F L N C I T I A M E | | | | | |
| 4060 | 4069 | 4078 | 4087 | 4096 | 4105 |
| CGC CCC AAA ATT GAC CCC CAC AGC GCT GAG CGC ATC TTC CTG ACC CTC TCC AAC | | | | | |
| R P K I D P H S A E R I F L T L S N | | | | | |
| 4114 | 4123 | 4132 | 4141 | 4150 | 4159 |
| TAC ATC TTC ACG GCA GTC TTT CTA GCT GAA ATG ACA GTG AAG GTG GTG GCA CTG | | | | | |
| Y I F T A V F L A E M T V K V V A L | | | | | |

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|---|------|------|------|------|------|
| 4168 | 4177 | 4186 | 4195 | 4204 | 4213 |
| GGC TGG TGC TTT GGC GAG CAG GCC TAC CTG CGC AGC AGC TGG AAT GTG CTG GAC | | | | | |
| G W C F G E Q A Y L R S S W N V L D | | | | | |
| 4222 | 4231 | 4240 | 4249 | 4258 | 4267 |
| GGC TTG CTG GTG CTC ATC TCC GTC ATC GAC ATC CTG GTC TCC ATG GTC TCC GAC | | | | | |
| G L L V L I S V I D I L V S M V S D | | | | | |
| 4276 | 4285 | 4294 | 4303 | 4312 | 4321 |
| AGC GGC ACC AAG ATC CTT GGC ATG CTG AGG GTG CTG CGG CTG CTG CGG ACC CTG | | | | | |
| S G T K I L G M L R V L R L L R T L | | | | | |
| 4330 | 4339 | 4348 | 4357 | 4366 | 4375 |
| CGT CCA CTC AGG GTC ATC AGC CGG GCC CAG GGA CTG AAG CTG GTG GTA GAG ACT | | | | | |
| R P L R V I S R A Q G L K L V V E T | | | | | |
| 4384 | 4393 | 4402 | 4411 | 4420 | 4429 |
| CTG ATG TCA TCC CTC AAA CCC ATT GGC AAC ATT GTG GTC ATT TGC TGT GCC TTC | | | | | |
| L M S S L K P I G N I V V I C C A F | | | | | |
| 4438 | 4447 | 4456 | 4465 | 4474 | 4483 |
| TTC ATC ATT TTT GGA ATT CTC GGG GTG CAG CTC TTC AAA GGG AAG TTC TTC GTG | | | | | |
| F I I F G I L G V Q L F K G K F F V | | | | | |
| 4492 | 4501 | 4510 | 4519 | 4528 | 4537 |
| TGT CAG GGT GAG GAC ACC AGG AAC ATC ACT AAC AAA TCC GAC TGC GCT GAG GCC | | | | | |
| C Q G E D T R N I T N K S D C A E A | | | | | |
| 4546 | 4555 | 4564 | 4573 | 4582 | 4591 |
| AGC TAC CGA TGG GTC CGG CAC AAG TAC AAC TTT GAC AAC CTG GGC CAG GCT CTG | | | | | |
| S Y R W V R H K Y N F D N L G Q A L | | | | | |
| 4600 | 4609 | 4618 | 4627 | 4636 | 4645 |
| ATG TCC CTG TTT GTG CTG GCC TCC AAG GAT GGT TGG GTT GAC ATC ATG TAT GAT | | | | | |
| M S L F V L A S K D G W V D I M Y D | | | | | |
| 4654 | 4663 | 4672 | 4681 | 4690 | 4699 |
| GGG CTG GAT GCT GTG GGT GTG GAT CAG CAG CCC ATC ATG AAC CAC AAC CCC TGG | | | | | |
| G L D A V G V D Q Q P I M N H N P W | | | | | |
| 4708 | 4717 | 4726 | 4735 | 4744 | 4753 |
| ATG CTG CTA TAC TTC ATC TCC TTC CTC CTC ATC GTG GCC TTC TTT GTC CTG AAC | | | | | |
| M L L Y F I S F L L I V A F F V L N | | | | | |
| 4762 | 4771 | 4780 | 4789 | 4798 | 4807 |
| ATG TTT GTG GGC GTG GTG GTG GAG AAC TTC CAT AAG TGC AGA CAG CAC CAG GAG | | | | | |
| M F V G V V V E N F H K C R Q H Q E | | | | | |
| 4816 | 4825 | 4834 | 4843 | 4852 | 4861 |
| GAG GAG GAG GCG AGG CGG CGT GAG GAG AAG CGA CTA CGG AGG CTG GAG AAA AAG | | | | | |
| E E E A R R R E E K R L R R L E K K | | | | | |

Sub
a1
cont

DNASIS DNA Translation [T-INS]

| | | | | | |
|---|------|------|------|------|------|
| 4870 | 4879 | 4888 | 4897 | 4906 | 4915 |
| AGA AGG AAT CTA ATG TTG GAC GAT GTA ATT GCT TCC GGC AGC TCA GCC AGC GCT | | | | | |
| R R N L M L D D V I A S G S S A S A | | | | | |
| 4924 | 4933 | 4942 | 4951 | 4960 | 4969 |
| GCG TCA GAA GCC CAG TGC AAG CCC TAC TAC TCT GAC TAC TCG AGA TTC CGG CTC | | | | | |
| A S E A Q C K P Y Y S D Y S R F R L | | | | | |
| 4978 | 4987 | 4996 | 5005 | 5014 | 5023 |
| CTT GTC CAC CAC CTG TGT ACC AGC CAC TAC CTG GAC CTC TTC ATC ACT GGT GTC | | | | | |
| L V H H L C T S H Y L D L F I T G V | | | | | |
| 5032 | 5041 | 5050 | 5059 | 5068 | 5077 |
| ATC GGG CTG AAC GTG GTC ACT ATG GCC ATG GAA CAT TAC CAG CAG CCC CAG ATC | | | | | |
| I G L N V V T M A M E H Y Q Q P Q I | | | | | |
| 5086 | 5095 | 5104 | 5113 | 5122 | 5131 |
| CTG GAC GAG GCT CTG AAG ATC TGC AAT TAC ATC TTT ACC GTC ATC TTT GTC TTT | | | | | |
| L D E A L K I C N Y I F T V I F V F | | | | | |
| 5140 | 5149 | 5158 | 5167 | 5176 | 5185 |
| GAG TCA GTT TTC AAA CTT GTG GGC TTT GGC TTC CGC CGT TTC TTC CAG GAC AGG | | | | | |
| E S V F K L V A F G F R R F F Q D R | | | | | |
| 5194 | 5203 | 5212 | 5221 | 5230 | 5239 |
| TGG AAC CAG CTG GAC CTG GCT ATT CTG CTT CTG TCC ATC ATG GGC ATC ACA CTG | | | | | |
| W N Q L D L A I V L L S I M G I T L | | | | | |
| 5248 | 5257 | 5266 | 5275 | 5284 | 5293 |
| GAG GAG ATT GAG GTC AAT GCT TCG CTG CCC ATC AAC CCC ACC ATC ATC CGT ATC | | | | | |
| E E I E V N A S L P I N P T I I R I | | | | | |
| 5302 | 5311 | 5320 | 5329 | 5338 | 5347 |
| ATG AGG GTG CTC CGC ATT GCT CGA GTT CTG AAG CTG TTG AAG ATG GCT GTG GGC | | | | | |
| M R V L R I A R V L K L L K M A V G | | | | | |
| 5356 | 5365 | 5374 | 5383 | 5392 | 5401 |
| ATG CGG GCA CTG CTG GAC ACG GTG ATG CAG GGC CTG CCC CAG GTG GGG AAC CTG | | | | | |
| M R A L L D T V M Q A L P Q V G N L | | | | | |
| 5410 | 5419 | 5428 | 5437 | 5446 | 5455 |
| GGA CTT CTC TTC ATG TTA TTG TTT TTC ATC TTT CCA GCT CTG GGC GTG GAG CTC | | | | | |
| G L L F M L L F F I F A A L G V E L | | | | | |
| 5464 | 5473 | 5482 | 5491 | 5500 | 5509 |
| TTT GGA GAC CTG GAG TGT GAT GAG ACA CAC CCT TGT GAG GGC TTG GGT CGG CAT | | | | | |
| F G D L E C D E T H P C E G L G R H | | | | | |
| 5518 | 5527 | 5536 | 5545 | 5554 | 5563 |
| GCC ACC TTT AGG AAC TTT GGT ATG GCC TTT CTG ACC CTC TTC CGA GTC TCC ACT | | | | | |
| A T F R N F G M A F L T L F R V S T | | | | | |

DNASIS DNA Translation [T-INS]

| | | | | | |
|---|------|------|------|------|------|
| 5572 | 5581 | 5590 | 5599 | 5608 | 5617 |
| GGT GAC AAC TGG AAT GGT ATT ATG AAG GAC ACC CTC CGG GAC TGT GAC CAG GAG | | | | | |
| G D N W N G I M K D T L R D C D Q E | | | | | |
| 5626 | 5635 | 5644 | 5653 | 5662 | 5671 |
| TCC ACC TGC TAC AAC ACT GTC ATC TCC CCT ATC TAC TTT GTG TCC TTC GTG CTG | | | | | |
| S T C Y N T V I S P I Y F V S F V L | | | | | |
| 5680 | 5689 | 5698 | 5707 | 5716 | 5725 |
| ACG GCC CAG TTT GTG CTG GTC AAC GTG GTC ATA GCT GTG CTG ATG AAG CAC CTG | | | | | |
| T A Q F V L V N V V I A V L M K H L | | | | | |
| 5734 | 5743 | 5752 | 5761 | 5770 | 5779 |
| GAA GAA AGC AAC AAA GAG GCG AAG GAG GAG GCC GAG CTC GAG GCC GAG CTG GAG | | | | | |
| E E S N K E A K E E A E L E A E L E | | | | | |
| 5788 | 5797 | 5806 | 5815 | 5824 | 5833 |
| CTG GAG ATG AAG ACG CTC AGC CCG CAG CCC CAC TCC CCG CTG GGC AGC CCC TTC | | | | | |
| L E M K T L S P Q P H S P L G S P F | | | | | |
| 5842 | 5851 | 5860 | 5869 | 5878 | 5887 |
| CTC TGG CCC GGG GTG GAG GGT GTC AAC AGT CCT GAC AGC CCT AAG CCT GGG GCT | | | | | |
| L W P G V E G V N S P D S P K P G A | | | | | |
| 5896 | 5905 | 5914 | 5923 | 5932 | 5941 |
| CCA CAC ACC ACT GCC CAC ATT GGA GCA GCC TCG GGC TTC TCC CTT GAG CAC CCC | | | | | |
| P H T T A H I G A A S G F S L E H P | | | | | |
| 5950 | 5959 | 5968 | 5977 | 5986 | 5995 |
| ACG ATG GTA CCC CAC CCC GAG GAG GTG CCA GTC CCC CTA GGA CCA GAC CTG CTG | | | | | |
| T M V P H P E E V P V P L G P D L L | | | | | |
| 6004 | 6013 | 6022 | 6031 | 6040 | 6049 |
| ACT GTG AGG AAG TCT GGT GTC AGC CGG ACG CAC TCT CTG CCC AAT GAC AGC TAC | | | | | |
| T V R K S G V S R T H S L P N D S Y | | | | | |
| 6058 | 6067 | 6076 | 6085 | 6094 | 6103 |
| ATG TGC CGC AAT GGG AGC ACT GCT GAG AGA TCC CTA GGA CAC AGG GGC TGG GGG | | | | | |
| M C R N G S T A E R S L G H R G W G | | | | | |
| 6112 | 6121 | 6130 | 6139 | 6148 | 6157 |
| CTC CCC AAA GCC CAG TCA GGC TCC ATC TTG TCC GTT CAC TCC CAA CCA GCA GAC | | | | | |
| L P K A Q S G S I L S V H S Q P A D | | | | | |
| 6166 | 6175 | 6184 | 6193 | 6202 | 6211 |
| ACC AGC TGC ATC CTA CAG CTT CCC AAA GAT GTG CAC TAT CTG CTC CAG CCT CAT | | | | | |
| T S C I L Q L P K D V H Y L L Q P H | | | | | |
| 6220 | 6229 | 6238 | 6247 | 6256 | 6265 |
| GGG GCC CCC ACC TGG GGC GCC ATC CCT AAA CTA CCC CCA CCT GGC CGC TCC CCT | | | | | |
| G A P T W G A I P K L P P P G R S P | | | | | |

DNASIS DNA Translation [T-INS]

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|-----------------|---------------------|-----------------|-----------------|---------|------|
| 6274 | 6283 | 6292 | 6301 | 6310 | 6319 |
| CTG GCT CAG AGC | CCT CTC AGG CGC | CAG GCA GCA ATA | AGG ACT GAC TCC | CTG GAT | |
| L A Q R | P L R R Q | A A I R | T D S | L D | |
| 6328 | 6337 | 6346 | 6355 | 6364 | 6373 |
| GTG CAG GGC CTG | GGT AGC CGG GAA GAC | CTG TTG TCA GAG | GTG AGT GGG CCC | TCC | |
| V Q G L | G S R E D | L L S E | V S G | P S | |
| 6382 | 6391 | 6400 | 6409 | 6418 | 6427 |
| TGC CCT CTG ACC | CGG TCC TCA TCC TTC | TGG GGC GGG TCG | AGC ATC CAG GTG | CAG | |
| C P L T | R S S S F | W G G S | S S I Q | V Q | |
| 6436 | 6445 | 6454 | 6463 | 6472 | 6481 |
| CAG CGT TCC GGC | ATC CAG AGC AAA GTC | TCC AAG CAC ATC | CGC CTG CCA GCC | CCT | |
| Q R S G | I Q S K V | S K H I | R L P A | P | |
| 6490 | 6499 | 6508 | 6517 | 6526 | 6535 |
| TGC CCA GGC CTG | GAA CCC AGC TGG GCC | AAG GAC CCT CCA | GAG ACC AGA AGC | AGC | |
| C P G L | E P S W A | K D P P | E T R S | S | |
| 6544 | 6553 | 6562 | 6571 | 6580 | 6589 |
| TTA GAG CTG GAC | ACG GAG CTG AGC TGG | ATT TCA GGA GAC | CTC CTT CCC | AGC AGC | |
| L E L D | T E L S W | I S G D | L L P S | S | |
| 6598 | 6607 | 6616 | 6625 | 6634 | 6643 |
| CAG GAA GAA CCC | CTG TCC CCA CGG GAC | CTG AAG AAG TGC | TAC AGT GTA GAG | ACC | |
| Q E E P | L S P R D | L K K C | Y S V E | T | |
| 6652 | 6661 | 6670 | 6679 | 6688 | 6697 |
| CAG AGC TGC AGG | CGC AGG CCT GGG TCC | TGG CTA GAT GAA | CAG CGG AGA CAC | TCC | |
| Q S C R | R R P G S | W L D E | Q R R H | S | |
| 6706 | 6715 | 6724 | 6733 | 6742 | 6751 |
| ATT GCT GTC AGC | TGT CTG GAC AGC GGC | TCC CAA CCC CGC | CTA TGT CCA AGC | CCC | |
| I A V S | C L D S G | S Q P R | L C P S | P | |
| 6760 | 6769 | 6778 | 6787 | 6796 | 6805 |
| TCA AGC CTC GGG | GGC CAA CCT CTT GGG | GGT CTT GGG AGC | CGG CCT AAG AAA | AAA | |
| S S L G | G Q P L G | G P G S | R P K K | K | |
| 6814 | 6823 | 6832 | 6841 | 6850 | 6859 |
| CTC AGC CCA CCC | AGT ATC TCT ATA GAC | CCC CCG GAG AGC | CAG GGC TCT CGG | CCC | |
| L S P P | S I S I D | P P E S | Q G S R | P | |
| 6868 | 6877 | 6886 | 6895 | 6904 | 6913 |
| CCA TGC AGT CCT | GGT GTC TGC CTC AGG | AGG AGG GCG CCG | GCC AGT GAC TCT | AAG | |
| P C S P | G V C L R | R R A P | A S D S | K | |
| 6922 | 6931 | 6940 | 6949 | 6958 | 6967 |
| GAT CCC TCG GTC | TCC AGC CCC CTT GAC | AGC AC GCT GCC | TCA CCC TCC CCA | AAG | |
| D P S V | S S P L D | S T A A | S P S P | K | |

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| | | | | | |
|---|-------------------------------------|-------------------------|------|------|------|
| 6976 | 6985 | 6994 | 7003 | 7012 | 7021 |
| AAA GAC ACG CTG AGT CTC | TCT GGT TTG TCT TCT GAC | CCA ACA GAC ATG GAC CCC | | | |
| K D T L S L S G L S S D P T D M D P | | | | | |
| 7030 | 7039 | 7048 | 7057 | 7066 | 7075 |
| TGA GTC CTA CCC ACT CTC | CCC CAT CAC CTT TCT CCA CCG | GGT GCA GAT CCT AGC | | | |
| * V L P T L P H H L S P P G A D P S | | | | | |
| 7084 | 7093 | 7102 | 7111 | 7120 | 7129 |
| TCC GCC TCC TGG GCA GCG TTT CTG AAA AGT | CCC ACG TAA GCA GCA AGC AGC CAC | | | | |
| S A S W A A F L K S P T * A A S S H | | | | | |
| 7138 | 7147 | 7156 | 7165 | 7174 | 7183 |
| GAG GCA CCT CAC CTG CCT TCT TGA GTG GCT | GGT GGG GAT GAC GAG CAG AAC TTC | | | | |
| E A P H L P S S V A G G D D E Q N F | | | | | |
| 7192 | 7201 | 7210 | 7219 | 7228 | 7237 |
| CGG AGA GTC GAT CTG AAG AGA ACA CAG | CCC TGG AGC CCC TGC CTC CGG GAA GAA | | | | |
| R R V D L K R T Q P W S P C L R E E | | | | | |
| 7246 | 7255 | 7264 | 7273 | 7282 | |
| GGA AAA GGA GAA AGC CCA GTG TGG CCA AGG | CTC CCG ACA CCA GGA GCT G/3' | | | | |
| G K G E S P V W P R L P T P G | | | | | |

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A/seq 2 + 4

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T-INS

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|------------|------------|------------|-------------|------------|------------|
| 10 | 20 | 30 | 40 | 50 | 60 |
| GEAGCTGAGC | TGAAGTGGCC | CTCCTGGGGA | CTCAGCAAGC | TCTCTAGAGC | CCCCACATG |
| 70 | 80 | 90 | 100 | 110 | 120 |
| CTCCCCCACC | GGGGTCCCC | GGTTGCGTGA | GGACACCTCC | TCTGAGGGGC | TCCGCTCGCC |
| 130 | 140 | 150 | 160 | 170 | 180 |
| CCTCTTCGGA | CCCCCGGGG | CCCCGGCTGG | CCAGAGGATG | GACGAGGAGG | AGGATGGAGC |
| 190 | 200 | 210 | 220 | 230 | 240 |
| GGGCGCCGAG | GAGTCGGGAC | AGCCCCGTAG | CTTCACGCAG | CTCAACGACC | TGTCCGGGGC |
| 250 | 260 | 270 | 280 | 290 | 300 |
| CGGGGGCCGG | CAGGGGCCGG | GGTCGACGGA | AAAGGACCCG | GGCAGCGCGG | ACTCCGAGGC |
| 310 | 320 | 330 | 340 | 350 | 360 |
| GGAGGGGCTG | CCGTACCCGG | CGCTAGCCCC | GGTGGTTTTT | TTCTACTTGA | GCCAGGACAG |
| 370 | 380 | 390 | 400 | 410 | 420 |
| CCGCCCGCGG | AGCTGGTGTC | TCGGCACGGT | CTGTAACCCG | TGGTTCGAGC | GAGTCAGTAT |
| 430 | 440 | 450 | 460 | 470 | 480 |
| GCTGGTCATT | CTTCTCAACT | GTGTGACTCT | GGGTATGTTC | AGGCCGTGTG | AGGACATTGC |
| 490 | 500 | 510 | 520 | 530 | 540 |
| CTGTGACTCC | CAGCGCTGCC | GGATCCTGCA | GGCCTTCGAT | GACTTCATCT | TTGCCTTCTT |
| 550 | 560 | 570 | 580 | 590 | 600 |
| TGCTGTGGAA | ATGGTGGTGA | AGATGGTGGC | CTTGGGCATC | TTTGGGAAGA | AATGTTACCT |
| 610 | 620 | 630 | 640 | 650 | 660 |
| GGGAGACACT | TGGAACCGGC | TTGACTTTTT | CATTGTCTATT | GCAGGGATGC | TGGAGTATTG |
| 670 | 680 | 690 | 700 | 710 | 720 |
| GCTGGACCTG | CAGAACGTCA | GCTTCTCCGC | AGTCAGGACA | GTCCGTGTGC | TGCGACCGCT |
| 730 | 740 | 750 | 760 | 770 | 780 |
| CAGGGCCATT | AACCGGTGTC | CCAGCATGCG | CATTCTCGTC | ACATTACTGC | TGGACACCTT |
| 790 | 800 | 810 | 820 | 830 | 840 |
| GCCTATGCTG | GGCAACGTCC | TGCTGCTCTG | TTTCTTCGTC | TTTTTCATCT | TTGGCATCGT |
| 850 | 860 | 870 | 880 | 890 | 900 |
| GGGCGTCCAG | CTGTGGGCAG | GACTGCTTCG | CAACCCATGC | TTCTCTCCCG | AGAACTTCAG |
| 910 | 920 | 930 | 940 | 950 | 960 |
| CCTCCCCCTG | AGCGTGGACC | TGGAGCCTTA | TTACCAGACA | GAGAATGAGG | ACGAGAGCCC |
| 970 | 980 | 990 | 1000 | 1010 | 1020 |
| CTTCATCTGC | TCTCAGCCTC | GGGAGAATGG | CATGAGATCG | TGCAGGAGTG | TGCCACACT |
| 1030 | 1040 | 1050 | 1060 | 1070 | 1080 |
| GCGTGGGGAA | GGCGGTGGTG | GCCCACCCTG | CAGTCTGGAC | TATGAGACCT | ATAACAGTTC |
| 1090 | 1100 | 1110 | 1120 | 1130 | 1140 |
| CAGCAACACC | ACCTGTGTCA | ACTGGAACCA | GTACTATACC | AACTGTCTTG | CGGGCGAGCA |
| 1150 | 1160 | 1170 | 1180 | 1190 | 1200 |
| CAACCCCTTC | AAAGCGCCCA | TCAACTTTGA | CAACATTGGC | TATGCTGGGA | TGCCCATCTT |
| 1210 | 1220 | 1230 | 1240 | 1250 | 1260 |
| CCAGGTATC | AACTGGAGG | GCTGGGTGGA | CATCATGTAC | TTGCTAATGG | ACGCTCACTC |

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SEQ ID NO: 1
coding region

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DNASIS
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|------------|------------|------------|------------|------------|-------------|
| 1270 | 1280 | 1290 | 1300 | 1310 | 1320 |
| CTTCTACAAC | TTCATCTACT | TCATTCTTCT | CATCATCGTG | GGCTCCTTCT | TCATGATCAA |
| 1330 | 1340 | 1350 | 1360 | 1370 | 1380 |
| CCTGTGCCTG | GTGGTGATTG | CCACGCAGTT | CTCCGAGACC | AAACAGCGGG | AGAGTCAGCT |
| 1390 | 1400 | 1410 | 1420 | 1430 | 1440 |
| GATGCCGGAG | CAGCGTGTAC | GATTCTCTGC | CAATGCTAGC | ACCCTGGCAA | GCTTCTCTGA |
| 1450 | 1460 | 1470 | 1480 | 1490 | 1500 |
| GCCAGGCAGC | TGCTATGAGG | AGCTACTCAA | GTACCTGGTG | TACATCTCTC | GAAAAGCAGC |
| 1510 | 1520 | 1530 | 1540 | 1550 | 1560 |
| CCGAAGGCTG | GCCCAGGTCT | CTAGGGCTAT | AGGCGTGCGG | GCTGGGCTGC | TCAGCAGCCC |
| 1570 | 1580 | 1590 | 1600 | 1610 | 1620 |
| AGTGGCCCGT | AGTGGGCAGG | AGCCCCAGCC | CAGTGGCAGC | TGCACTOGCT | CACACCGTCG |
| 1630 | 1640 | 1650 | 1660 | 1670 | 1680 |
| TCTGTCTGTC | CACCACCTGG | TCCACCACCA | TCACCACCAC | CATCACCCTC | ACCACCTGGG |
| 1690 | 1700 | 1710 | 1720 | 1730 | 1740 |
| TAATGGGACG | CTCAGAGTTC | CCCGGGCCAG | CCCAGAGATC | CAGGACAGGG | ATGCCAATGG |
| 1750 | 1760 | 1770 | 1780 | 1790 | 1800 |
| GTCTCGCCGG | CTCATGCTAC | CACCACCTTC | TACACCCACT | CCCTCTGGGG | GCCCTCCGAG |
| 1810 | 1820 | 1830 | 1840 | 1850 | 1860 |
| GGGTGCGGAG | TCTGTACACA | GCTTCTACCA | TGCTGACTGC | CACTTGGAGC | CAGTCCGTTC |
| 1870 | 1880 | 1890 | 1900 | 1910 | 1920 |
| CCAGGCACCC | CCTCCCAGAT | GCCCATCGGA | GGCATCTGGT | AGGACTGTGG | GTAGTGGGAA |
| 1930 | 1940 | 1950 | 1960 | 1970 | 1980 |
| GGTGTACCCC | ACTGTGCATA | CCAGCCCTCC | ACCAGAGATA | CTGAAGGATA | AAGCACTAGT |
| 1990 | 2000 | 2010 | 2020 | 2030 | 2040 |
| GGAGGTGGCC | CCCAGCCCTG | GGCCCCCACC | CCTCACCAGC | TTCAACATCC | CACCTGGGCC |
| 2050 | 2060 | 2070 | 2080 | 2090 | 2100 |
| CTTCAGCTCC | ATGCACAAGC | TCCTGGAGAC | ACAGASTACG | GGAGCCTGCC | ATAGCTCTCTG |
| 2110 | 2120 | 2130 | 2140 | 2150 | 2160 |
| CAAAATCTCC | AGCCCTTGCT | CCAAGGCAGA | CAGTGGATCC | TGCGGGCCGG | ACAGTTGTCC |
| 2170 | 2180 | 2190 | 2200 | 2210 | 2220 |
| CTACTGTGCC | CGGACAGGAG | CAGGAGAGCC | AGAGTCCGCT | GACCATGTCA | TGCCTGACTC |
| 2230 | 2240 | 2250 | 2260 | 2270 | 2280 |
| AGACAGCGAG | GCTGTGTATG | AGTTCACACA | GGACGCTCAG | CACAGTGACC | TCCGGGATCC |
| 2290 | 2300 | 2310 | 2320 | 2330 | 2340 |
| CCACAGCCGG | CGGCGACAGC | GGAGCCTGGG | CCCAGATGCA | GAGCCTAGTT | CTGTGCTGGC |
| 2350 | 2360 | 2370 | 2380 | 2390 | 2400 |
| TTTCTGGAGG | CTGATCTGTG | ACACATTCCG | GAAGATCGTA | GATAGCAAAT | ACTTTGGCCG |
| 2410 | 2420 | 2430 | 2440 | 2450 | 2460 |
| GGGAATCATG | ATCGCCATCC | TGGTCAATAC | ACTCAGCATG | GGCATCGAGT | ACCACGAGCA |
| 2470 | 2480 | 2490 | 2500 | 2510 | 2520 |
| GCCCGAGGAG | CTCACCAACG | CCCTGGAAAT | CAGCAACATC | GTCTTCACCA | GCCTCTTCGC |

DNASIS
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|------------|------------|------------|------------|------------|------------|
| 2530 | 2540 | 2550 | 2560 | 2570 | 2580 |
| CTTGGAGATG | CTGCTGAAAC | TGCTTGCTA | CGGTCCCTTT | GGCTACATTA | AGAATCCCTA |
| 2590 | 2600 | 2610 | 2620 | 2630 | 2640 |
| CAACATCTTT | GATGGTGTC | TTGTGGTCAT | CAGTGTGTGG | GAGATTGTGG | GCCAGCAGGG |
| 2650 | 2660 | 2670 | 2680 | 2690 | 2700 |
| AGGTGGCCTG | TCGGTGCTGC | GGACCTTCCG | CCTGATGCGG | GTGCTGAAGC | TGGTGCCTT |
| 2710 | 2720 | 2730 | 2740 | 2750 | 2760 |
| CCTGCCGCC | CTGCAGCGCC | AGCTCGTGGT | GCTCATGAAG | ACCATGGACA | ACGTGGCCAC |
| 2770 | 2780 | 2790 | 2800 | 2810 | 2820 |
| CTTCTGCATG | CTCCTCATGC | TGTTTCATCT | CATCTTCAGC | ATCCTGGGCA | TGCATCTCTT |
| 2830 | 2840 | 2850 | 2860 | 2870 | 2880 |
| TGGTTGCAAG | TTCGCATCTG | AACGGGATGG | GGACACGTTG | CCAGACCGGA | AGAATTTGGA |
| 2890 | 2900 | 2910 | 2920 | 2930 | 2940 |
| CTCCCTGCTC | TGGGCCATCG | TCACTGTCTT | TCAGATTCTG | ACTCAGGAAG | ACTGGAATAA |
| 2950 | 2960 | 2970 | 2980 | 2990 | 3000 |
| AGTCTCTTAC | AACGGCATGG | CCTCCACATC | GTCTTGGGCT | GCTCTTTACT | TCATCGCCCT |
| 3010 | 3020 | 3030 | 3040 | 3050 | 3060 |
| CATGACTTTT | GGCAACTATG | TGCTCTTTAA | CCTGCTGGTG | GCCATCTCTG | TGGAAGGATT |
| 3070 | 3080 | 3090 | 3100 | 3110 | 3120 |
| CCAGGCAGAG | GAAATCGGCA | AACGGGAAGA | TGCGAGTGGA | CAGTTAAGCT | GTATTCAGCT |
| 3130 | 3140 | 3150 | 3160 | 3170 | 3180 |
| GCCTGTCAAC | TCTCAGGGGG | GAGATGCCAC | CAAGTCTGAG | TCAGAGCCTG | ATTTCTTTTC |
| 3190 | 3200 | 3210 | 3220 | 3230 | 3240 |
| GCCCAGTGTT | GATGGTGATG | GGGACAGAAA | GAAGCGCTTG | GCCCTGGTGG | CTTTGGGAGA |
| 3250 | 3260 | 3270 | 3280 | 3290 | 3300 |
| ACACGCGGAA | CTACGAAAGA | GCCTTTTGCC | ACCCCTCATC | ATCCATACGG | CTGCGACACC |
| 3310 | 3320 | 3330 | 3340 | 3350 | 3360 |
| AATGTCACTA | CCCAAGAGCT | CCAGCACAGG | TGTGGGGGAA | GCACTGGGCT | CTGGCTCTCG |
| 3370 | 3380 | 3390 | 3400 | 3410 | 3420 |
| ACGTACCACT | AGCAGTGGGT | CCGCTGAGCC | TGGAGCTGCC | CACCATGAGA | TGAAATCTCC |
| 3430 | 3440 | 3450 | 3460 | 3470 | 3480 |
| GCCAAGTGCC | CGCAGCTCCC | CGCACAGTCC | CTGGAGTGCG | GCAAGCAGCT | GGACCAGCAG |
| 3490 | 3500 | 3510 | 3520 | 3530 | 3540 |
| GCGCTCCAGC | AGGAACAGCC | TGGGCCGGGC | CCCCAGCCTA | AAGCGGAGGA | GCCCGAGCGG |
| 3550 | 3560 | 3570 | 3580 | 3590 | 3600 |
| GGAGCGGAGG | TCCCTGCTGT | CTGGAGAGGG | CCAGGAGAGT | CAGGATGAGG | AGGAAAGTTC |
| 3610 | 3620 | 3630 | 3640 | 3650 | 3660 |
| AGAAGAGGAC | CGGGCCAGCC | CAGCAGGCAG | TGACCATCGC | CACAGGGGTT | CCTTGAACG |
| 3670 | 3680 | 3690 | 3700 | 3710 | 3720 |
| TGAGGCCAAG | AGTTCTTTTG | ACCTGCCTGA | CACTCTGCAG | GTGCCGGGCG | TGCACCGCAC |
| 3730 | 3740 | 3750 | 3760 | 3770 | 3780 |
| AGCCAGCGGC | CGGAGCTCTG | CCTCTGAGCA | CCAAGACTGT | AATGGCAAGT | CGGCTTCAGG |

DNASIS
T-INS

| | | | | | |
|------------|------------|------------|------------|------------|-------------|
| 3790 | 3800 | 3810 | 3820 | 3830 | 3840 |
| GCGMTTGGCC | CGCACCTGA | GGACTGATGA | CCCCCAACTG | GATGGGGATG | ATGACAATGA |
| 3850 | 3860 | 3870 | 3880 | 3890 | 3900 |
| TGAGGGAAAT | CTGAGCAAAG | GGGAACGCAT | ACAAGCCTGG | GTCAGATCCC | GGCTTCCTGC |
| 3910 | 3920 | 3930 | 3940 | 3950 | 3960 |
| CTGTTGCCGA | GAGCGAGATT | CCTGGTCGGC | CTATATCTTT | CCTCCTCAGT | CAAGGTTTCG |
| 3970 | 3980 | 3990 | 4000 | 4010 | 4020 |
| TCTCTGTGT | CACCGGATCA | TCACCCACAA | GATGTTTGAC | CATGTGGTCC | TCGTCAATCAT |
| 4030 | 4040 | 4050 | 4060 | 4070 | 4080 |
| CTTCCTCAAC | TGTATCACCA | TCGCTATGGA | GCGCCCCAAA | ATTGACCCCC | ACAGCGCTGA |
| 4090 | 4100 | 4110 | 4120 | 4130 | 4140 |
| GCGCATCTTC | CTGACCTCT | CCAACTACAT | CTTCACGGCA | GTCTTTCTAG | CTGAAATGAC |
| 4150 | 4160 | 4170 | 4180 | 4190 | 4200 |
| AGTGAAGGTG | GTGGCACTGG | GCTGGTGCTT | TGGGGAGCAG | GCCTACCTGC | GCAGCAGCTG |
| 4210 | 4220 | 4230 | 4240 | 4250 | 4260 |
| GAATGTGCTG | GACGGCTTGC | TGGTGCTCAT | CTCCGTCATC | GACATCCTGG | TCTCCATGGT |
| 4270 | 4280 | 4290 | 4300 | 4310 | 4320 |
| CTCCGACAGC | GGCACCAAGA | TCCTTGGCAT | GCTGAGGGTG | CTGCGGCTGC | TGCGGACCCT |
| 4330 | 4340 | 4350 | 4360 | 4370 | 4380 |
| GCGTCCACTC | AGGGTCATCA | GCCGGGCCCA | GGGACTGAAG | CTGGTGGTAG | AGACTCTGAT |
| 4390 | 4400 | 4410 | 4420 | 4430 | 4440 |
| GTCATCCCTC | AAACCCATTG | GCAACATGT | GGTCATTGTC | TGTGCCTTCT | TCATCATTTT |
| 4450 | 4460 | 4470 | 4480 | 4490 | 4500 |
| TGGAATTCTC | GGGGTGCAGC | TCTTCAAAGG | GAAGTCTTTC | GTGTGTCAGG | GTGAGGACAC |
| 4510 | 4520 | 4530 | 4540 | 4550 | 4560 |
| CAGGAACATC | ACTAACAAAT | CCGACTGCCG | TGAGGCCAGC | TACCGATGGG | TCCGGCACAA |
| 4570 | 4580 | 4590 | 4600 | 4610 | 4620 |
| GTACAACCTT | GACAACTGG | GCCAGGCTCT | GATGTCCCTG | TTGTGTCTGG | CCTCCAAGGA |
| 4630 | 4640 | 4650 | 4660 | 4670 | 4680 |
| TGGTGGGGTT | GACATCATGT | ATGATGGGCT | GGATGCTGTG | GGTGTGGATC | AGCAGCCCAT |
| 4690 | 4700 | 4710 | 4720 | 4730 | 4740 |
| CATGAACCAC | AACCCCTGGA | TGCTGCTATA | CTTCATCTCC | TTCTCTCTCA | TCGTGGCCTT |
| 4750 | 4760 | 4770 | 4780 | 4790 | 4800 |
| CTTGTCTCTG | AACATGTTTG | TGGGCGTGGT | GGTGGAGAAC | TTCCATAAGT | GCAGACAGCA |
| 4810 | 4820 | 4830 | 4840 | 4850 | 4860 |
| CCAGGAGGAG | GAGGAGCGCA | GGCGGCGTGA | GGAGAAGCGA | CTACGGAGGC | TGGAGAAAAA |
| 4870 | 4880 | 4890 | 4900 | 4910 | 4920 |
| GAGAAGGAAT | CTAATGTTGG | ACGATGTAAT | TGCTTCCGGC | AGCTCAGCCA | GCGCTGCGTC |
| 4930 | 4940 | 4950 | 4960 | 4970 | 4980 |
| AGAAGCCAG | TGCAAGCCCT | ACTACTCTGA | CTACTCGAGA | TTCCGGCTCC | TTGTCCACCA |
| 4990 | 5000 | 5010 | 5020 | 5030 | 5040 |
| CCTGTGTACC | AGCCACTACC | TGGACCTCTT | CATCACTGGT | GTCATCGGGC | TGAACGTGGT |

DNASIS
T-INS

| | | | | | |
|------------|------------|------------|------------|------------|------------|
| 5050 | 5060 | 5070 | 5080 | 5090 | 5100 |
| CACTATGGCC | ATGGAACATT | ACCAGCAGCC | CCAGATCCTG | GACGAGGCTC | TGAAGATCTG |
| 5110 | 5120 | 5130 | 5140 | 5150 | 5160 |
| CAATTACATC | TTTACCGTCA | TCCTTGTCTT | TGAGTCAGTT | TTCAAACCTG | TGGCCTTTGG |
| 5170 | 5180 | 5190 | 5200 | 5210 | 5220 |
| CTCCGCCCGT | TTCTTCCAGG | ACAGGTGGAA | CCAGCTGGAC | CTGGCTATTG | TGCTTCTGTC |
| 5230 | 5240 | 5250 | 5260 | 5270 | 5280 |
| CATCATGGGC | ATCACACTGG | AGGAGATTGA | GGTCAATGCT | TCGCTGCCCC | TCAACCCAC |
| 5290 | 5300 | 5310 | 5320 | 5330 | 5340 |
| CATCATCCGT | ATCATGAGGG | TGCTCCGCAT | TGCTCGAGTT | CTGAAGCTGT | TGAAGATGGC |
| 5350 | 5360 | 5370 | 5380 | 5390 | 5400 |
| TGTGGGCATG | CGGGCACTGC | TGGACACGGT | GATGCAGGCC | CTGCCCCAGG | TGGGGAACCT |
| 5410 | 5420 | 5430 | 5440 | 5450 | 5460 |
| GGGACTTCTC | TTCATGTTAT | TGTTTTTCAT | CTTTGCAGCT | CTGGGCGTGG | AGCTCTTTGG |
| 5470 | 5480 | 5490 | 5500 | 5510 | 5520 |
| AGACCTGGAG | TGTGATGAGA | CACACCCTTG | TGAGGGCTTG | GGTCGGCATG | CCACCTTTAG |
| 5530 | 5540 | 5550 | 5560 | 5570 | 5580 |
| GAACCTTGGT | ATGGCCTTTC | TGACCCCTT | CCGAGTCTCC | ACTGGTGACA | ACTGGAATGG |
| 5590 | 5600 | 5610 | 5620 | 5630 | 5640 |
| TATTATGAAG | GACACCCTCC | GGGACTCTGA | CCAGGAGTCC | ACCTGCTACA | ACACTGTGAT |
| 5650 | 5660 | 5670 | 5680 | 5690 | 5700 |
| CTCCCCATC | TACTTTGTGT | CCTTCGTGCT | GACGGCCAG | TTTGTGCTGG | TCAACGTGGT |
| 5710 | 5720 | 5730 | 5740 | 5750 | 5760 |
| CATAGCTGTG | CTGATGAAGC | ACCTGGAAGA | AAGCAACAAA | GAGGCCAAGG | AGGAGGCCGA |
| 5770 | 5780 | 5790 | 5800 | 5810 | 5820 |
| GCTCGAGGCC | GAGCTGGAGC | TGGAGATGAA | GACGCTCAGC | CCGCAGCCCC | ACTCCCCGCT |
| 5830 | 5840 | 5850 | 5860 | 5870 | 5880 |
| GGGCAGCCCC | TTCTCTGGC | CCGGGGTGG | GGGTGTCAAC | AGTCCTGACA | GCCCTAAGCC |
| 5890 | 5900 | 5910 | 5920 | 5930 | 5940 |
| TGGGGCTCCA | CACACCACTG | CCCACATTGG | AGCAGCTCTG | GGCTTCTCCC | TTGAGCACCC |
| 5950 | 5960 | 5970 | 5980 | 5990 | 6000 |
| CACGATGGTA | CCCCACCCCG | AGGAGGTGCC | AGTCCCCCTA | GGACCAGACC | TGCTGACTGT |
| 6010 | 6020 | 6030 | 6040 | 6050 | 6060 |
| GAGGAAGTCT | GGTGTAGGCC | GGACGCATC | TCTGCCCAAT | GACAGCTACA | TGTGCCGCAA |
| 6070 | 6080 | 6090 | 6100 | 6110 | 6120 |
| TGGGAGCACT | GCTGAGAGAT | CCCTAGGACA | CAGGGGCTGG | GGGCTCCCCA | AAGCCAGTC |
| 6130 | 6140 | 6150 | 6160 | 6170 | 6180 |
| AGGCTCCATC | TTGTCCGTTT | ACTCCCAACC | AGCAGACACC | AGCTGCATCC | TACAGCTTCC |
| 6190 | 6200 | 6210 | 6220 | 6230 | 6240 |
| CAAAGATGTG | CACTATCTGC | TCCAGCCTCA | TGGGGCCCCC | ACCTGGGGCG | CCATCCCTAA |
| 6250 | 6260 | 6270 | 6280 | 6290 | 6300 |
| ACTACCCCCA | CCTGGCCGCT | CCCCTCTGGC | TCAGAGGCCT | CTCAGGCGCC | AGGCAGCAAT |

DNASIS
T-INS

| | | | | | |
|------------|------------|------------|------------|------------|-------------|
| 6310 | 6320 | 6330 | 6340 | 6350 | 6360 |
| AAGGACTGAC | TCCCTGGATG | TGCAGGGCCT | GGGTAGCCGG | GAAGACCTGT | TGTCAGAGGT |
| 6370 | 6380 | 6390 | 6400 | 6410 | 6420 |
| GAGTGGGCCC | TCCTGCCCTC | TGACCCGGTC | CTCATCCTTC | TGGGGCGGGT | CGAGCATCCA |
| 6430 | 6440 | 6450 | 6460 | 6470 | 6480 |
| GGTGCAGCAG | CGTTCCCGCA | TCCAGAGCAA | AGTCTCCAAG | CACATCCGCC | TGCCAGCCCC |
| 6490 | 6500 | 6510 | 6520 | 6530 | 6540 |
| TTGCCCAGGC | CTGGAACCCA | GCTGGGCCAA | GGACCCTCCA | GAGACCAGAA | GCAGCTTAGA |
| 6550 | 6560 | 6570 | 6580 | 6590 | 6600 |
| GCTGGACACG | GAGCTGAGCT | GGATTTCAGG | AGACCTCCTT | CCCAGCAGCC | AGGAAGAACC |
| 6610 | 6620 | 6630 | 6640 | 6650 | 6660 |
| CCTGTCCCCA | CGGGACCTGA | AGAAGTGCTA | CAGTGTAGAG | ACCCAGAGCT | GCAGGCGCAG |
| 6670 | 6680 | 6690 | 6700 | 6710 | 6720 |
| GCCTGGGTCC | TGGCTAGATG | AACAGCGGAG | ACACTCCATT | GCTGTCAGCT | GTCTGGACAG |
| 6730 | 6740 | 6750 | 6760 | 6770 | 6780 |
| CGGCTCCCAA | CCCCGCCTAT | GTCCAAGCCC | CTCAAGCCTC | GGGGGCCAAC | CTCTTGGGGG |
| 6790 | 6800 | 6810 | 6820 | 6830 | 6840 |
| TCCTGGGAGC | CGGCCTAAGA | AAAAACTCAG | CCCACCCAGT | ATCTCTATAG | ACCCCCCGGA |
| 6850 | 6860 | 6870 | 6880 | 6890 | 6900 |
| GAGCCAGGGC | TCTCGGCCCC | CATGCAGTCC | TGGTGTCTGC | CTCAGGAGGA | GGGCGCCGGC |
| 6910 | 6920 | 6930 | 6940 | 6950 | 6960 |
| CAGTGACTCT | AAGGATCCCT | CGGTCTCCAG | CCCCCTTGAC | AGCACGGCTG | CCTCACCCCTC |
| 6970 | 6980 | 6990 | 7000 | 7010 | 7020 |
| CCCAAAGAAA | GACACGCTGA | GTCTCTCTGG | TTTGTCTTCT | GACCCAACAG | ACATGGACCC |
| 7030 | 7040 | 7050 | 7060 | 7070 | 7080 |
| CTGAGTCCTA | CCCACTCTCC | CCCATCACCT | TTCTCCACCG | GGTGCAGATC | CTAGCTCCGC |
| 7090 | 7100 | 7110 | 7120 | 7130 | 7140 |
| CTCCTGGGCA | GCGTTTCTGA | AAAGTCCCAC | GTAAGCAGCA | AGCAGCCACG | AGGCACCTCA |
| 7150 | 7160 | 7170 | 7180 | 7190 | 7200 |
| CCTGCCTTCT | TCACTGGCTG | GTGGGGATGA | CGACGAGAAC | TTCCGGAGAG | TCGATCTGAA |
| 7210 | 7220 | 7230 | 7240 | 7250 | 7260 |
| GAGAACACAG | CCCTGGAGCC | CCTGCCTCCG | GGAAGAAGGA | AAAGGAGAAA | GCCCAGTGTG |
| 7270 | 7280 | 7290 | 7300 | 7310 | 7320 |
| GCCAAGGCTC | CCGACACCAG | GAGCTG | | | |

end of
seq 1+3

start of
SEQ ID No:2
(coding region)

ELS*TGPPGDSASSLEPPTCSPTGVPRRLREDTSSEGLRSPFLFGPPG
 APAGQRDEEEDGAGAEESGQPRSFTQLNDLSGAGGRQGPGSTEK
 DPGSADSEAEGLPYPALAPVFFVYLSQDSRPRSACLRTVCNPFWE
 RVSMVLILLNVTGLGMFRPCEDIACDSQRCRILQAFDDFICFAFFAV
 EMVVKMVALGIFGKKCYLGDWTNRDLDFIVIAAGMLEYSLDLQNV
 FSAVRTVRVLRPLRAINRVPSMRILVTLLLDTLPMGLGNVLLLCFFV
 FFIIGIVGVQLWAGLLRNRCFLPENFSLPLSVLDLEPYQYQTENEDES
 PFICSQPRENGMRSRCSVPTLRGEGGGGPPCSLDYETYNSSSNT
 CVNWNQYITNCSAGEHNPFKGAINFDNIGYAWIAIFQVITLEGWV
 DIMYFVMDAHSFYNFIFYILLIIVGSFFMINLCLVVIATQFSETGKQ
 ESQLMREQVRVFLNASTLASFSEPGSCYEELLKYL VYILRKAAR
 RLAQVSRAIGVRAQLLSSPVARSQGEPPQSGSCTRSHRRLSVHHL
 VHHHHHHHHHYHLNGTLRVPRASPEIQDRDANGSRRLMLPPPT
 PTHSGGPPRGAESVHSFYHADCHLEPVRQCAPPPRCPSEASGRSTV
 GSGKVYPTVHTSPPEILKD KALVEVAPSPGPPTLTSTFNIPPGPFS
 MHKLLTQSTGACHSSCKISSPCSKADSGACGPDSCPYCARTGAG
 EPESADHVMPDSDSEAVYEFTQDAQHSDLRDPHSRRRQRSLGPD
 EPSSVLAFWRLICDTRFKIVDSKYFGRGIMAILVNTLSMGIEYHEQ
 PEELTNALAEISNIVFTSLFALEMLLKLLVYGFYIKNPYNIFDGV
 VVISVWEIVGQQGGGLSVLRTFRMLMRVLKLVRLPALQRQLVVL
 KTMNDNVATECMLLMFLFIFISILGMHLFGCKFASERDGD TLPDR
 NFD SLLWAIVTVFQILTQEDWNKVLVNGMASTSSWAALFYIALMT
 FGNVYFLNLLVAILVEGFAEEIGKREDASGQSLSCIQLPVNSQGD
 ATKSESEPDFFSVDGDGRKKRLALVALGEHAELRKSLLPLII
 HTAATPMSLPKSSSTGVGEALGSGSRRTSSSSGSAEPGAHHHEMKS
 PPSARSSPHSPWSAASSWTSRRSSRNSLGRAPSLKRRSPSGERRS
 LLSGEGQESQDEEESSEEDRASPAQSGDHRHRGSLEREAKSSFDLPD
 TLQVPGHLRTASGRSSASEHDCNGKSGASRLARTLRDDBQLDG
 DDDNDEGNLSKGERIAQAWVRSLRPAACCRERDSWSAYIFPPQSRFR
 LLCHRIITHKMFHDHVVLVIIFLNCITIAMERPKIDPHSAERIFLTLSN
 YIFTAVFLAEMTVKVVALGWCFGEQAYLRSSWNVDGLLVLSIVI
 DILVSMVSDSGTKILGMLRVLRRLRTRLRPLRVISRAQGLKLVVETL
 MSSLKPIGNIVVICCAFFIIFGILGVLFKKGFFVCQGEDTRNITNK
 SDCAEASRYRVRHKYNFDNLGQALMSLFLVASKDGWDVIMYDGL
 DAVGVDDQQPIMNHNPNWMLLYFISLLIVAFFVLNMFVGVVVENFH
 KCRQHQEEEEEARREEKRLRLLEKKRRNLMLDDVIASGSSASAAS
 EAQCKPYSDYSRFRLLVHHLCTSHYLDLFFITGVIGLNVVTMAWE
 HYQQPQILDEALKICNYIFTVIFVFSVFKLVAFGRFRFFQDRWNQ
 LDLAIVLLSIMGITLEEIEVNASLPINTIIRIMRVLRIRARVLKLLKM
 AVGMRALLDTVMQALPQVGNLGLLFLMLLFFIFAALGVELFGDLEC
 DETHPCEGLGRHATFRNFGMAFLTLPFRVSTGDNWNGIMKDTLRDC
 DQUESTCYNTVISPIYFVSFVLTAQFVLNVVIAVLMKHLEESNKEA
 KEEAELEAELEEMKTLSPQPHSLGSPFLWPVGVEGVNSPDSKPKG
 APHTTAHIGAASGSFLEHPTMVPHPEEVPVPLGPDLLTVRKSQVSR
 THSLPNDSYMCNRNGSTAERSLGHRGWOLPKAQSGSILSVHSQPAD
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 AIRTDSLDVQGLGSRREDLLSEVSGPSCPTTRSSSFWGSSSIQVQQR
 SGIQSKVSKHIRLPAPCPGLEPSWAKDPPTTRSSLELDTLSWISG
 DLLPSSQEEPLSPRDLKKCYSVETQSCRPPSGSWLDEQRRHSIAV
 SCLDSGSQPRLCPSPSLLGGQPLGGPGSRKKKLSPPSISIDPPESQ
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 SGLSSDPTDMDP*VLPTLPHHLSPPGADPSSASWAAFLKSPT*AS
 SL2071EAPHLPSSVAGGDDEQNFRRVDLKRTPQWSPCLREEGKGE
 SPVWPRLPTPGA/

SEQ 2 + 4

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[illegible]

SEQ ID NO:5: SKEKQMA

SEQ ID NO:6: 5' TNGC(A/C/T)ATGGAG(C/A)GNCC(C/T)-3'

SEQ ID NO:7: 5'-CTT(C/G/T)CCCTTGAA(G/C)A(G/A)CTG-3'

SEQ ID NO:8: 5'-CCGCTGTCGGAGACCATGGAGACC-3'

SEQ ID NO:9: 5'-AGCGGCCCAAAATTGACCCCCACAG-3'

SEQ ID NO:10: 5'-GAAGATGCGAGTGGACAG-3'

SEQ ID NO:11: 5'- CTGTGCGATGGTCACTG-3'

Sub
C
C

[illegible]